

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/076730 A2

(51) International Patent Classification: Not classified

(21) International Application Number: PCT/IL2005/000166

(22) International Filing Date: 10 February 2005 (10.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/776,163 12 February 2004 (12.02.2004) US
162231 30 May 2004 (30.05.2004) IL

(71) Applicant (for all designated States except US): KORNIT DIGITAL LTD. [IL/IL]; 5 David Navon Street, P.O. Box 8406, 56910 Moshav Magshimim (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BEN-ZUR, Ofer [IL/IL]; 1 Harduf Street, 43220 RaAnana (IL). PEARL, Yossi [IL/IL]; 8 Tashach Street, 62093 Tel-Aviv (IL).

(74) Agent: G. E. EHRLICH (1995) LTD.; 11 Menachem Begin Street, 52 521 Ramat-Gan (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/076730 A2

(54) Title: A DIGITAL PRINTING APPARATUS

(57) Abstract: A digital printing machine includes a rigid frame, a first linear motion X axis stage mounted on the frame, a printing table assembly movable on each linear X axis stage, a linear motion Y axis stage mounted on the frame perpendicular to the linear X axis stages, above the printing table assemblies, and an array of inkjet nozzles mounted on the linear Y axis stage for linear motion perpendicular to the X axis stage, also a second linear motion X axis stage mounted on the frame parallel to the first axis stage and arranged for operation independently of the first axis stage, and/or a curing unit located above the printing table assembly and/or a pre-printing wetting assembly, for printing over garments, by applying wetting composition on the printed material, prior to printing.